

Work Order ID 142382

March 08, 2016 9:54:14 AM

142382

Page 1

Item ID: D412-791-047

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Pitot Heat Monitoring

Start Date: 3/8/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 3/9/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: *SH*

Date: 3/9/2016 Tooling:

Date:

Run Start ***NR1***

QC:

Date: SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
IIN-D412-791	D

100	Document Control	0.00	DAS 6						
100									
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP D412-791-047 CHG 002								

DAS
27
9-89

MAR 09 2016

MAR 08 2016

110	Pick Kit	0.00							
-----	----------	------	--	--	--	--	--	--	--

110									
Packaging	Memo	0.00							
Packaging									

MAR 08 2016

DAS
6
9-89

120	QC4- 100% Inspect kits for completeness	0.00							
-----	---	------	--	--	--	--	--	--	--

120									
QC	Memo	0.00							
Quality Control									

DAS
27
9-89

MAR 09 2016

DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By																																																									
								Lead hand / Supervisor Approval Verification																																																									
								QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

Work Order ID 142382

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142382

Page 2

Item ID: D412-791-047

Accept

N900040100Setup Start ***NS1***

Revision ID:

Item Name: Pitot Heat Monitoring

Stop ***NS2***

Start Date: 3/8/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 3/9/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130		0.00				AS			
130						27			
Packaging	Memo	0.00				9-09			
Packaging	Identify and pack for shipping as per PPP D412-791-047								
	Location: _____								
	PPP rev: _____								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

MAR 09 2016

MCS MAR 09 2016

MCS MAR 09 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

Picklist Print

March 08, 2016 9:54:19 AM

Page 1

Work Order ID: 142382

142382

Parent Item: D412-791-047

D412-791-047

Parent Item Name: Pitot Heat Monitoring

Start Date: 3/8/2016

Required Date: 3/9/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP RevA: New issue DD verified by:EC
11.09.12 @ chg 002 DD verf:EC

IPP REV:B

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

18-200		Purchased	No			110	Each	2.0000	1	1			
--------	--	-----------	----	--	--	-----	------	--------	---	---	--	--	--

18-200

Quick Connector, Plug

**

DAS
6
9-89

DAS
28
9-89

DAS
27
9-89

1N4007

1N4007

DIODE

**

DAS
6
9-89

DAS
27
9-89

80-004-2-6

80-004-2-6

Insert

**

DAS
28
9-89

DAS
27
9-89

D3896-1

D3896-1

Relay

**

DAS
6
9-89

DAS
27
9-89

Location

st575

Loc Qty

2

Loc Code

120527

2

110

Each

2.0000

6

128443

Location

CA

Loc Qty

2

Loc Code

m129682

2

110

Each

1,261.000

3

Location

ST584

Loc Qty

1261

Loc Code

124720

1261

110

Each

4.0000

2

Location

ST057

Loc Qty

4

Loc Code

141728

4

MAR 08 2016

DAS
28
9-89

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Work Order ID: 142382

Parent Item: D412-791-047

Parent Item Name: Pitot Heat Monitoring

142382

D412-791-047

Start Date: 3/8/2016

Required Date: 3/9/2016

Start Qty: 1.00

Required Qty: 1.00

D3897-1 Manufactured No

110 Each 2.0000 1

D3897-1

Angle

**

DAS

6

9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

ST057

2

127649

1

141729

1

LED-50-17-BG-E0705

Purchased No

110 Each 2.0000 1

LED-50-17-BG-E0705

Annunciator

**

DAS

6

9-89

Location

Loc Qty

Loc Code

ST563

2

m134346

2

M12883/45-01

Purchased No

110 Each 2.0000 1

M12883/45-01

Relay Base

**

DAS

6

9-89

Location

Loc Qty

Loc Code

ST565

2

m134247

2

M81714/16-3

Purchased No

110 Each 3.0000 1

M81714/16-3

Terminal Blocks track

**

DAS

6

9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

ST562

1

m134362

1

ST567

2

m134247

2

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Shop Packet Print

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Work Order ID: 142382

Parent Item: D412-791-047

Parent Item Name: Pitot Heat Monitoring

142382

D412-791-047

Start Date: 3/8/2016

Required Date: 3/9/2016

Start Qty: 1.00

Required Qty: 1.00

M81714/2-DC1

Purchased

No

110

Each

5.0000

2

M81714/2-DC1

Terminal Blocks

**

DAS
6
9-89

Location

Loc Qty

Loc Code

ST567

5

m134247

4

m134362

1

100

Each

3.0000

1

DAS
28
9-89

M81714/2-DD2

Purchased

No

M81714/2-DD2

Terminal Blocks

**

DAS
6
9-89

Location

Loc Qty

Loc Code

ST557

1

m133074

1

ST567

2

m134247

2

110

Each

1.0000

1

DAS
28
9-89

M83536/2-024

Purchased

No

M83536/2-024

Relay

**

DAS
6
9-89

Location

Loc Qty

Loc Code

ST568

1

m134170

1

110

Each

136.0000

2

DAS
28
9-89

MS21042L06

Purchased

No

MS21042L06

Nut

**

DAS
6
9-89

Location

Loc Qty

Loc Code

ST303

136

m134063

36

m134294

100

DAS
27
9-89

MAR 08 2016

DAS
28
9-89

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Shop Packet Print

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Picklist Print

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Page 4

Work Order ID: 142382

142382

Parent Item: D412-791-047

D412-791-047

Parent Item Name: Pitot Heat Monitoring

Start Date: 3/8/2016

Required Date: 3/9/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L08

Purchased

No

110

Each

1,787.000

4

4

MS21042L08

Nut

**

DAS

6

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CA

101

m129682

101

GA

161

m133134

3

m134063

158

OVER007

500

m134063

500

ST303

625

m133922

625

ST308

400

m134376

400

MS24524-23

Purchased

No

110

Each

8.0000

1

1

MS24524-23

Switch

**

DAS

6

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CA

3

m129747

3

CCK007

4

m126826

4

ST289

1

m126338

1

MAR 08 2016

DAS

28

9-89

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Work Order ID: 142382

Parent Item: D412-791-047

Parent Item Name: Pitot Heat Monitoring

142382

D412-791-047

Start Date: 3/8/2016

Required Date: 3/9/2016

Start Qty: 1.00

Required Qty: 1.00

MS24524-31

Purchased

No

110

Each

6.0000

1

MS24524-31

Switch, DPDT

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST289

6

m134243

4

m134247

2

MS24693-S26

Purchased

No

110

Each

98.0000

2

MS24693-S26

Screw

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST286

98

m133523

98

MS25036-102

Purchased

No

110

Each

79.0000

15

MS25036-102

Terminal Lug

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST282

79

116143

29

m134257

50

MS27039-08-14

Purchased

No

110

Each

45.0000

4

MS27039-08-14

Screw

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST278

45

m126474

45

DAS
27
9-89

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Shop Packet Print

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Picklist Print

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Page 6

Work Order ID: 142382

Parent Item: D412-791-047

Parent Item Name: Pitot Heat Monitoring

142382

D412-791-047

Start Date: 3/8/2016

Required Date: 3/9/2016

Start Qty: 1.00

Required Qty: 1.00

MS35207-260

Purchased

No

110

Each

67.0000

3

MS35207-260

Screw

**

DAS
6
9-89

Location

Loc Qty

Loc Code

ST271

67

112719

67

110

Each

1,919.000

3

NAS1149D0363J

Purchased

No

NAS1149D0363.J

Washer

**

DAS
6
9-89

Location

Loc Qty

Loc Code

GA

64

m130799

64

ST263

1855

m134055

855

m134370

1000

110

Each

797.0000

2

NAS1149DN632J

Purchased

No

NAS1149DN632.J

Washer

**

DAS
6
9-89

Location

Loc Qty

Loc Code

ST264

797

m133860

97

m134370

700

DAS
27
9-89

MAR 08 2016

DAS
28
9-89

Picklist Print

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Work Order ID: 142382

Parent Item: D412-791-047

Parent Item Name: Pitot Heat Monitoring

142382

D412-791-047

Start Date: 3/8/2016

Required Date: 3/9/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149DN832J

Purchased

No

110

Each

2,181.000

8

8

NAS1149DN832.J

Washer

★★

DAS

6

9-89

BAS
27
9-89

Location

Loc Qty

Loc Code

CA

84

M129499

84

ST260a

1500

M134180

1500

ST263

597

M131697

597

HW210

Purchased

No

110

Each

10.0000

1

1

HW210

Resistor, 1K Ohms

★★

DAS

6

9-89

BAS
27
9-89

Location

Loc Qty

Loc Code

ST562

10

113331

1

114971

9

DAS
28
9-89
MAR 08 2016

7.0 PARTS LIST

QTY -011	QTY -041	QTY -043	QTY -045	QTY <u>-047</u>	QTY -049	PART NUMBER	DESCRIPTION
X						D412-791-011	SAFETY ENHANCEMENT KITS COMPLETE
1	X					D412-791-041	FLASHLIGHT KIT
1		X				D412-791-043	MAPBOX KIT
1			X			D412-791-045	EXIT ILLUMINATION KIT
1				X		D412-791-047	PITOT HEAT MONITORING KIT
1					X	D412-791-049	STANDBY ATTITUDE BATTERY MONITORING KIT
	2					D3921-1	FLASHLIGHT
	4					D3922-1	CLIP
	2					D3923-1	ANGLE
	4					D3924-1	SHIM
	8					MS20426AD3-6	RIVETS
	6					MS20470AD4-5	RIVET
	4					MS21059-L3	ANCHOR NUT
	4					MS35207-264	SCREW
		1				D3936-041	MAPBOX
		4				MS35207-244	SCREW
			16			D3937-041	PHOTOLUMINESCENT STRIPS
			90			D3950-1	RIVET (INCLUDES 10 EXTRA)
				1		18-200	CONNECTOR
				6		1N4007	DIODE
				3		80-004-2-6	POTTED INSERTS
				2		D3896-1	RELAY
				1		D3897-1	ANGLE
				1		LED-50-17-BG-E0705	ANNUNCIATOR
				1		M12883/45-01	RELAY BASE
				1		M81714/16-3	TERMINAL BLOCKS TRACK
				2		M81714/2-DC1	TERMINAL BLOCKS
				1		M81714/2-DD2	TERMINAL BLOCKS

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Revision: D

Date: 13.02.01

QTY -011	QTY -041	QTY -043	QTY -045	QTY -047	QTY -049	PART NUMBER	DESCRIPTION
				1		M83536/2-024	RELAY
				2		MS21042L06	NUT
				4		MS21042L08	NUT
				1		MS24524-23	SWITCH, DPDT
				1		MS24524-31	SWITCH, DPDT
				2		MS24693S26	SCREW
				15		MS25036-102	TERMINAL LUGS, #6
				4		MS27039-0814	SCREW
				3		MS35207-260	SCREW
				3		NAS1149D0363J	WASHER
				2		NAS1149DN632J	WASHER
				8		NAS1149DN832J	WASHER
				1		HW210	RESISTOR, 1K OHMS
					1	18-200	CONNECTOR
					5	1N4007	DIODE
					3	80-004-2-6	POTTED INSERTS
					1	D3897-1	ANGLE
					1	D3938-1	DECAL
					1	LED-50-17-HK-E0700	ANNUNCIATOR (STBY BATT)
					1	M12883/45-01	RELAY BASE
					1	M81714/16-3	TERMINAL BLOCKS TRACK
					2	M81714/2-DC1	TERMINAL BLOCKS
					1	M81714/2-DD2	TERMINAL BLOCKS
					1	M83536/2-024	RELAY
					2	MS21042L06	NUT
					2	MS24693S26	SCREW
					3	MS35207-260	SCREW
					3	NAS1149D0363J	WASHER
					2	NAS1149DN632J	WASHER
				1		HW210	RESISTOR, 1K OHMS

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Revision: D

Date: 13.02.01